GOVERNMENT OF INDIA
RURAL DEVELOPMENT
LOK SABHA

STARRED QUESTION NO:129
ANSWERED ON:24.11.2016
Use of GIS and Space Imagery Data for PMGSY
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Will the Minister of RURAL DEVELOPMENT be pleased to state:

(a) the provisions made for quality check of the material at procurement stage, the construction stage, as well as at the maintenance stage of the Pradhan Mantri Gram Sadak Yojana (PMGSY);

(b) whether the Union Government has started using GIS and Space Imagery for improving the planning and monitoring aspects of the scheme and if so, the details thereof including the data available on the improvement in the planning process, timeline and monitoring since the introduction of GIS and Space Imagery techniques;

(c) the savings generated by the use of GIS or Space Imagery along with the aspects of the road building process which has witnessed maximum improvement through their use; and

(d) whether the Space Imagery input is being used by the Union Government to approve payments and if so, the details thereof?

Answer

MINISTER OF RURAL DEVELOPMENT
(SHRI NARENDRA SINGH TOMAR)

(a) to (d): A Statement is laid on the Table of the House.

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Statement referred in reply to Lok Sabha Starred Question No. 129 due for answer on 24.11.2016

Pradhan Mantri Gram Sadak Yojana (PMGSY) prescribes that, the value of finished items of work executed is to be paid to the contractor in accordance with the bill of quantities. Separate payment for procurement of materials is not made to the contractor. Further, as per the agreement, the contractor is required to carry out mandatory tests of quality of material and workmanship, during execution, as prescribed in the specification for which the contractor establishes a field lab having requisite equipments and manpower, at a location decided by the Engineer in-charge of PMGSY. The Project Implementation Unit (PIU) is mandated to verify the setting up of field labs by the contractor. The existence of these labs as well as the quality testing done by them is also checked by State Quality Monitors (SQMs) and National Quality Monitors (NQMs). Payment of first bill to the contractor by PIU is linked to the establishment of such field labs by the contractor.

In order to create a mechanism to detect the variance between the progress of implementation of the scheme and the progress reported electronically by the States on the programme MIS, ie. OMMAS, the National Rural Roads Development Agency (NRRDA), Ministry of Rural Development and Centre for Geo-Informatics Application in Rural Development (CGARD) of National Institute of Rural Development & Panchyati Raj, Hyderabad entered into an Memorandum of Understanding on 16.12.2015 regarding the use of Satellite imagery for planning and monitoring of PMGSY roads in five States (two districts each) selected under this project. The States/districts selected under this project are:

(1) Assam (Kamrup and Darrang Districts).

(2) Chhattisgarh (Raigarh and Korba Districts).

(3) Odisha (Puri and Nayagarh Districts).

(4) Rajasthan (Jaipur and Alwar Districts).

(5) Telangana (Nalgonda and Karimnagar Districts)

Under the project the following parameters have been covered:

(a) Checking the feasibility of the proposed alignment of Roads in terms of its cost effectiveness and other geo-morphological constraints.

(b) Checking the progress report by the States (OMMAS) with respect to;
(i) Reported alignment i.e. habitations covered.

(ii) Reported physical progress of construction.

The report of CGARD based on the sample study reveals that 70 road works out of 242 road works analyzed using Satellite Imageries have variations in road length constructed vis-Ã -vis road length sanctioned.

The report of CGARD has been shared with the concerned States for comments and appropriate action. Based on the outcome of sample study in 10 districts in 5 States, the Ministry has taken a decision to universalize this intervention across all States in coordination with National Remote Sensing Agency (NRSA) under Department of Space.

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